

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A method for reducing the number of lung metastases in an animal exhibiting a primary tumor comprising administering to said animal a dose of 50 [10] mg/kg to [150] 100 mg/kg of WR-2721, wherein the number of metastases is reduced in the lung.
- 2.-6. (canceled)
7. (previously presented) The method of claim 1, wherein said tumor is a sarcoma or carcinoma.
8. (canceled)
9. (previously presented) The method claim 1, wherein said WR-2721 is the thiol form.
10. (previously presented) The method claim 1, wherein said WR-2721 is the disulfide form.
11. (canceled)
12. (previously presented) The method of claim 1, wherein the route of administration of said WR-2721 is intravenous, intraperitoneal, intradermal, intramuscular, dermal, nasal, buccal, rectal, vaginal, inhalation, or topical.
13. (previously presented) The method of claim 1, wherein said WR-2721 is formulated into solutions, suspensions, tablets, pills, capsules, sustained release formulations, powders, creams, ointments, salves, sprays, pumps, liposomes, suppositories, inhalers, and patches.

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14. – 22. (canceled)

23. (previously presented) The method of claim 1, further comprising monitoring the ability of the dose of WR-2721 to reduce metastases in the animal.
24. (previously presented) The method of claim 23, wherein the monitoring comprises measuring the level of angiostatin stimulation.
25. (previously presented) The method of claim 23, wherein the monitoring comprises measuring the level of activity of a matrix metalloproteinase.
26. (previously presented) The method of claim 25, wherein the matrix metalloproteinase is MMP-2.
27. (previously presented) The method of claim 25, wherein the matrix metalloproteinase is MMP-9.
28. (previously presented) The method of claim 23, wherein the monitoring comprising measuring the stimulation of MnSOD.
29. (previously presented) The method of claim 28, wherein the measuring of MnSOD stimulation comprises measuring the stimulation of MnSOD gene expression.
30. (currently amended) A method for inhibiting lung metastasis in an animal exhibiting a primary tumor comprising administering to said animal a dose of 50 [10] mg/kg to [150] 100 mg/kg of WR-2721, wherein the number of lung metastases is inhibited.

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31. (currently amended) A method for preventing lung metastasis in an animal exhibiting a primary tumor comprising administering to said animal a dose of [10] 50 mg/kg to [150] 100 mg/kg of WR-2721, and wherein lung metastases are prevented in said animal.

32. - 34. (canceled)

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